Roster Enabling for Thousands—xPress Roster

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Thur Aug 3 9:00-10:00 am State Ballroom
Session Overview

- What is “xPress”?
- RICOOne Project
- xPress API Development
- xPress API Adoption and Usage
The RIC One Project

NEW YORK’S SOLUTION FOR ROSTERING, SSO AND DATA PRIVACY & SECURITY

© Access 4 Learning (A4L) Community
New York State

- 12 RICS
- 37 BOCES
- 700+ districts
- Big 5
- 2.6 million students
- 210,496 teachers
New York’s Data Ecosystem
One API / One LOGIN
Providing K-12 districts in NY State with data integration and single login capabilities

ONE API
RIC One provides fast, simple and secure integration between a district’s student information system and multiple applications, including assessment, instructional and administrative applications.

ONE LOGIN
Multiple applications and only one login will increase the time for teachers to teach and students to learn.

DATA PRIVACY & SECURITY
Maintaining the security and privacy of student data is what sets RIC One apart from all other similar services. Districts retain control of their data while in the custody of their RIC.
Redundancy
New York State

- Ed Law 2c
- Ed Law 2d
Data Sprawl

Note: Products shown are only examples intended to show the concept.
RIC One API
(an implementation of xPress Roster)

Applications Providing Data
(to the API)

Applications Consuming Data
(from the API)

PowerSchool API

xPress

Appliance

STAR™ Assessments

CASTLE Learning ONLINE

Hapara

ClearTrack™

Others

CSV
District Control of Data

RIC One API Appliance

Appliances are designed to be deployed & hosted on RIC networks
SIF xPress Roster API Development

...OR HOW THE SAUSAGE WAS MADE
SIF xPress Roster API Development

• Inspiration

• Opportunity

• Implementation
Three Sources of Inspiration

1. Problem
2. People
3. Patterns
Problem

“Let’s solve this stupid problem!”
The “Rostering” User Story

As a Teacher

I can easily allow my students to access instructional applications

In order to provide my students with quick, seamless access to educational content, and to save time
People
People

Joe Fitzgerald
Lower Hudson RIC

Dan Ingvarson
Aprina, Moxie Methods

Kin Lane
The API Evangelist
Patterns

- Past
  - Ever ubiquitous and always painful: file exchange
  - Message Oriented Middleware (MOM)
  - “The One”

- Present
  - The world runs on diverse APIs

- Future...?
Opportunity

- Hole left by InBloom in New York state
- NYSED
- NSIP (Australia) work
- The Access 4 Learning community
- Twelve Regional Information Centers (RICs)
SIF xPress Roster API = 7 Objects
Implementation

1. Analysis of 120+ educational applications (state and national)
2. Construction of roster-optimized data model (220+ elements)
3. Technical implementation
4. Adaptation
5. Expansion

• Data Dictionary
  • Originally instantiated using CEDS technical element names
  • XSD
  • Data Provider Appliances (aka data hubs)
  • API improvements and enhancements
  • Assessment, attendance, other in-demand domains
the Trusted Platform for School Community Engagement since 1999

- Backed by West Corporation, $2.6 billion, Fortune 1000 provider of telecom services
- Communications Platforms used by more than half of schools, students and parents (U.S. & Canada)

Seamless integration & unified communication
School (and Provider) Challenges

- Customized school data elements and schema
- Multiple service provider (data requirements)
- Limited resources / Need to Prioritize
- Inadequate data control and transparency
- Multiple data (interoperability) standards
- Multiple integration pathways and platforms
- Student data privacy and security

$100 M / year Rostering & Provisioning
Considerations & Recommendations

- Core Competency
- Costs
- Time
- Partner

- Risks
- Standards
- Scale & Automation
- Data Control
Roster Data Service
Leveraging industry standards
SchoolMessenger xPress Roster Certification
xPress Roster Benefits

- Simple yet Robust
- Extendable
- Mapped to CEDS
- ETL Ready
- RESTful API
- Flexible Authentication Model
- State adopted
- A4L community
- A4L certification process
Information

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